



USSR

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CIPHER FOR "HELIX" TO BE MODELED ON THAT
USED BY "ALBIN" (1942)

From : STOCKHOLM

To : MOSCOW

No. : 873

8 May 62

To LANOV[i].

With reference to your No. [1 group unrecoverable][a] I report:

1. PERLIX's [HELIX][ii] cipher (on ALBIN's [AL'BIN][iii] principle).

The primary encrypted text is in Swedish using 26 letters and two punctuation marks. The eight consonant letters are ADDITION. The key starts at the third letter of the word used for generating the number allocator [CHISLOVYJ RASPRYDELITEL'] [b]; continues by taking the digits [c] from right to left and from bottom to top, line by line.

The first indicator is added to the third group from the beginning multiplied by three[d]. We put it at the third position from the beginning. The second indicator is added to the fourth group from the end multiplied by four[d]. We put it at the fourth position from the end. The service group[e]

[65 groups unrecoverable]

No. 168

AKASTO[iv]

[Notes and Comments overleaf]

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3/NEF/T4686

Notes: [a] This number is either 3917 or 4813; neither is available.

[b] This presumably refers to the numbering of the columns in the table used for converting the letters of the word into key digits.

[c] Or, alternatively, "letters".

[d] Presumably non-carrying multiplication.

[e] SLUZHBNAYA GRUPPA: generally used of a group containing external message data, such as date and group count.

Comments: [i] LANOV : Col. BALTSHEKO of the Special Communications Division of the GRU.

[ii] FELIX : Unidentified cover-name. See also MOSCOW's No. 710 of 30th September 1942 (3/NEF/T4686).

[iii] ALBIN : Unidentified cover-name. See also MOSCOW's No. 939 of 13th October 1941 (3/NEF/T4686).

[iv] AKASTO : Col. N. I. NIKITUSHOV, Soviet Military Attaché in STOCKHOLM.